Avaya VLAN Manager User Guide

August 2003

Avaya VLAN Manager User Guide

Copyright 2003 Avaya Inc. ALL RIGHTS RESERVED

The products, specifications, and other technical information regarding the products contained in this document are subject to change without notice. All information in this document is believed to be accurate and reliable, but is presented without warranty of any kind, express or implied, and users must take full responsibility for their application of any products specified in this document. Avaya disclaims responsibility for errors which may appear in this document, and it reserves the right, in its sole discretion and without notice, to make substitutions and modifications in the products and practices described in this document.

Avaya™, P550™ and SMON™ are trademarks of Avaya Inc.

© 2003 Avaya Inc. All rights reserved. All trademarks identified by the ® or ™ are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners.

Release 1.001

Table of Contents

Preface v

The Purpose of This Guide v
Who Should Use This Guide v
Organization of This Guide v

Chapter 1 — Introduction to Avaya VLAN Manager. 1

Avaya VLAN Manager Overview 1
VLANs Overview 2
Master VLAN List 2
VLAN Tags 2
Starting Avaya VLAN Manager 3
Avaya VLAN Manager User Interface 3
Toolbar 4
Device Tree 4
VLAN Tree 4
Dialog Area 5
Searching in Avaya VLAN Manager 6
Refreshing Information 6
Using Avaya VLAN Manager Help 7
Opening the Help to the Contents Page 7
Opening the Help to a Topic of Interest 7

Chapter 2 — Understanding Avaya VLAN Manager. 8

Understanding the Device Tree 8
Sorting the Device Tree 9
Understanding the VLAN Tree 10
Understanding the Selection List 12
Understanding the Port Configuration Area 13

Chapter 3 — Managing VLANs 15

Creating VLANs 15
Modifying VLANs 17
Synchronizing VLAN Names 18
Deleting VLANs 19

Chapter 4 — Port VLAN Configuration 20

Selecting Ports 20
Viewing Port VLAN Settings 21

Using the Port Configuration Area 21
Drag-and-Drop 22

Chapter 5 — Generating VLAN Reports 23

VLAN Report Overview 23
Report By Port 24
Generating a Report by Port 24
Report By Port Fields 24
Report By VLAN 25
Generating a Report by VLAN 25
Report By VLAN Fields 26

Appendix A — Avaya VLAN Manager Menus 27

File Menu 27
Edit Menu 27
View Menu 28
Actions Menu 28
Help Menu 28

Preface

Welcome to Avaya VLAN Manager. This chapter provides an introduction to the structure of this guide. It includes the following sections:

- **The Purpose of This Guide** - A description of the goals of this guide.
- **Who Should Use This Guide** - The intended audience of this guide.
- **Organization of This Guide** - A brief description of the subjects contained in the various sections of this guide.

The Purpose of This Guide

This guide contains the information needed to use Avaya VLAN Manager efficiently and effectively.

Who Should Use This Guide

This guide is intended for use by network managers familiar with network management and its fundamental concepts.

Organization of This Guide

This guide is structured to reflect the following conceptual divisions:

- **Preface** - A description of the guide's purpose, intended audience, and organization.
- **Introduction** - An introduction to Avaya VLAN Manager, including instructions on Starting Avaya VLAN Manager, a detailed description of VLAN Manager's user interface, and instructions on how to use VLAN Manager's on-line help.
- **Managing VLANs** - Instructions on creating, deleting, and editing VLANs using the VLAN Manager application.

- **Configuring Port VLAN Parameters** - Instructions on viewing port VLAN configuration and configuring port VLAN parameters.
- **Generating VLAN Reports** - Instructions on how to generate VLAN reports.
- **Menus** - The full menu structure in Avaya VLAN Manager.

1 Introduction to Avaya VLAN Manager

This chapter provides an introduction to Avaya VLAN Manager. It includes the following sections:

- **Avaya VLAN Manager Overview** - An overview of Avaya VLAN Manager, including information on the purpose of the application.
- **Starting Avaya VLAN Manager** - Instructions on how to start Avaya VLAN Manager.
- **Avaya VLAN Manager User Interface** - An introduction to Avaya VLAN Manager's user interface, including instructions on using the toolbar buttons.
- **Searching in Avaya VLAN Manager** - Instructions on how to search for ports in Avaya VLAN Manager.
- **Refreshing Information** - Instructions on how to refresh the information in Avaya VLAN Manager.
- **Using Avaya VLAN Manager Help** - An explanation of the options for accessing on-line help in Avaya VLAN Manager.

Avaya VLAN Manager Overview

This section contains an overview of VLANs and how to configure them, and contains the following sections:

- **VLANs Overview**
- **Master VLAN List**
- **VLAN Tags**

VLANs Overview

The building blocks of VLANs are switch ports. To build a new VLAN you need to define a VLAN name and number. You can then add switch ports to the VLAN by configuring the PVID of the port to the VLAN number. The ports are members of the VLAN whose number is their PVID. In addition, you can configure the VLAN tagging mode and binding style of the switch ports. VLAN #1 is the default VLAN and is named **Default**.

For more information about VLANs, refer to *VLANs* in *The Reference Guide*.

Master VLAN List

The master VLAN list is a file on the network management station that contains a list of globally defined VLANs and their names. This list is only available when running Avaya Network Manager. VLANs that are listed in the master VLAN list are called globally known VLANs. VLANs that are not in the master VLAN list but are configured on a device are called locally known VLANs.

VLAN Tags

Packets can be tagged with VLAN information. When a tagged packet enters a switch port, it maintains its tag. When an untagged packet enters a switch port, the packet is tagged with the port's PVID (Port VLAN ID).

When a packet arrives at the egress port, the VLAN Binding Style is checked. If the packet's VLAN tag does not match a VLAN to which the egress port is bound, the packet is discarded. If the tag matches a VLAN to which the egress port is bound, the Tagging Mode is used. If the Tagging Mode is Clear, the packet is forwarded with no VLAN tag. If the Tagging Mode is anything else, the packet is forwarded with its VLAN tag.

Starting Avaya VLAN Manager

To start Avaya VLAN Manager from Avaya Network Management Console, select **Tools > Avaya VLAN Manager**. Avaya VLAN Manager opens.

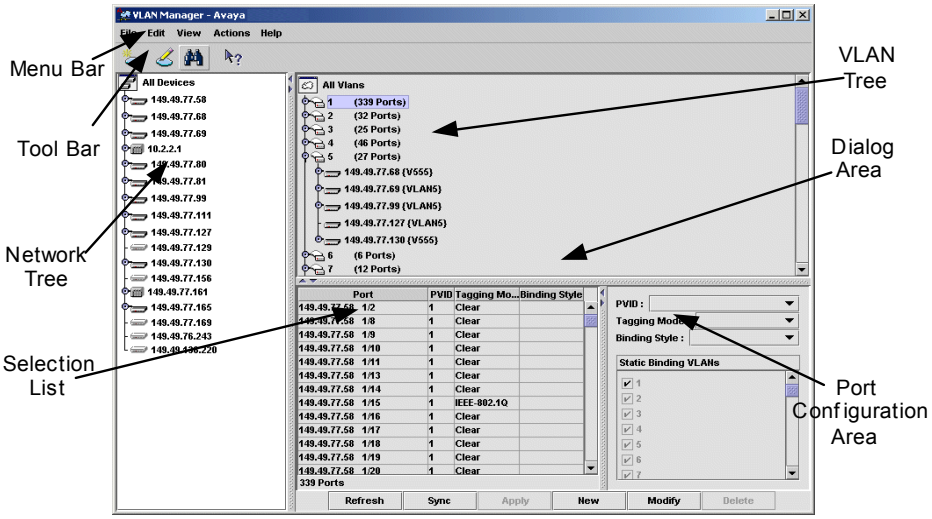
To start Avaya VLAN Manager from HP-OV NNM, select **Tools > Avaya > Avaya VLAN Manager**. Avaya VLAN Manager opens.

Avaya VLAN Manager User Interface

Avaya VLAN Manager's user interface consists of the following elements:

- **Menu Bar** - Menus for accessing Avaya VLAN Manager management functions. For a full list of the menus in Avaya VLAN Manager, refer to Appendix A, *Avaya VLAN Manager Menus*.
- **Toolbar** - Toolbar buttons for accessing Avaya VLAN Manager management functions.
- **Device Tree** - A hierarchical representation of the supported devices in the network.
- **VLAN Tree** - A list of all the learned VLANs.
- **Dialog Area** - A resizeable window where the Avaya VLAN Manager dialog box opens.

Figure 1-1. Avaya VLAN Manager User Interface



Toolbar

The Toolbar provides shortcuts to the main Avaya VLAN Manager functions. The table below describes the buttons on the Toolbar and gives the equivalent menu options.

Table 1-1. Toolbar Buttons

Button	Description	Menu Item
	Opens the New VLAN dialog box.	**File > New VLAN**
	Opens the Modify VLAN dialog box.	**Edit > Modify VLAN**
	Opens the Find Port dialog box.	**Edit > Find Port**
	Activates context-sensitive help.	**Help > Help On**

When you place the cursor on a toolbar icon for one second, a label appears with the name of the button.

Device Tree

The Device Tree provides a hierarchical representation of the devices and ports in your network. For more information on the Device Tree, refer to “Understanding the Device Tree” on page 8.

VLAN Tree

The VLAN Tree provides a list of the VLANs and their ports and LAGs. The VLANs include all VLANs known on the network. The ports listed under a VLAN include member ports and LAGs, and ports and LAGs statically bound to the VLAN.

For more information on the VLAN Tree, refer to “Understanding the VLAN Tree” on page 10.

Dialog Area

The area below the VLAN Tree is where the VLAN Manager dialog box appears. This area can be resized by dragging the splitter bars with the mouse. When no dialog box is open, the Selection List and Port Configuration Area appear in the Dialog Area.

The Selection List contains a table with VLAN information about the current selection. For example, if you select a module in the Tree View or Chassis View, a list of the ports in the module with their VLAN information appears in the Selection List. For more information on the Selection List, refer to "Understanding the Selection List" on page 12.

The Port Configuration Area can be used to configure the VLAN parameters of selected ports. For more information on the Port Configuration Area, refer to "Understanding the Port Configuration Area" on page 13.

You can hide the Selection List and Port Configuration Area. This can prevent unintentional changes to the VLAN configuration. In addition, it will cut the application's response time. To toggle the display of the Selection List and Port Configuration Area, select **View > Configure**.

Searching in Avaya VLAN Manager

Avaya VLAN Manager allows you to search for ports in the Device Tree and VLAN Tree.

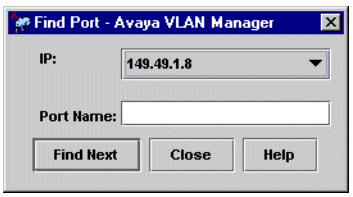
To search for a port:

1. Click .

   Or

   Select **Edit > Find**. The Find Port dialog box opens.

Figure 1-2. Find Port Dialog Box



2. Select the IP address of the device on which the port you want to find is located form the Device IP pull-down listbox.
3. Enter the port name of the port you want to find.
4. Click **Find Next**. Avaya VLAN Manager searches for the port.

Refreshing Information

You can refresh the information in the Device Tree and VLAN Tree. Avaya VLAN Manager gets information about the devices in the network from your network management application (Avaya Network Management Console in Standalone Mode or HP-OV NNM). Refresh the Avaya VLAN Manager information whenever devices or modules are added to or removed from your network.

To refresh the information in the Avaya VLAN Manager:

Select **View > Refresh**.

Or

Click **Refresh**. The information in Avaya VLAN Manager is refreshed.

Using Avaya VLAN Manager Help

This section explains how to use the on-line help in Avaya VLAN Manager. The on-line help can be opened to the contents page or directly to a topic of interest.

Opening the Help to the Contents Page

To open the help to the contents page, select **Help > Contents**. The on-line help opens to the contents page.

Opening the Help to a Topic of Interest

To open the help directly to a topic of interest:

1. Click .

   Or

   Select **Help > Help On**. The cursor changes to the shape of an arrow with a question mark.

2. Click on a point of interest in Avaya VLAN Manager. The help opens to a topic explaining the clicked feature.

2 Understanding Avaya VLAN Manager

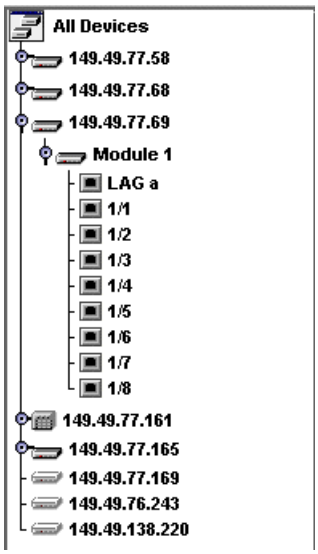
This chapter provides information on understanding Avaya VLAN Manager functions and features. It includes the following sections:

- **Understanding the Device Tree**
- **Understanding the VLAN Tree**
- **Understanding the Selection List**
- **Understanding the Port Configuration Area**

Understanding the Device Tree

The Device Tree provides a hierarchical representation of the network.

Figure 2-1. Device Tree



The following is a list of the levels in the Device Tree:

- **All Devices** - An icon representing all of the ports in supported devices in the network. When you select All Devices, all of the ports in supported devices in the network are selected.

- **Devices** - The devices in the network. When you select a device, all of the ports in the device are selected.
- **Modules** - The modules in the network. When you select a module, all of the ports in the module are selected.
- **Ports** - The ports and LAGs in the network.

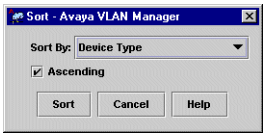
Sorting the Device Tree

You can sort the devices in the Device Tree by device type or device IP address using the Sort dialog box.

To sort the devices in the Device Tree:

1. Select **View > Sort**. The Sort dialog box opens.

Figure 2-2. Sort Dialog Box

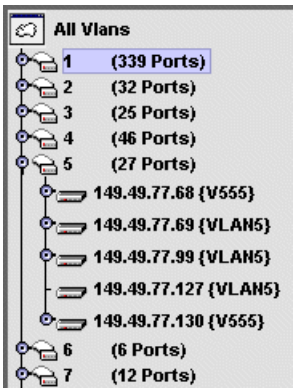


2. Select a sort criterion from the Sort By pull-down listbox. The sort criteria are:
   - **Device IP** - The devices are sorted by IP address.
   - **Device Type** - The devices are first sorted by device type.
3. Click **Sort**. The devices in the Device Tree are sorted by the selected criterion.

Understanding the VLAN Tree

The VLAN Tree provides a list of VLANs, devices, and their ports. The VLANs include all VLANs known on the network and all VLANs configured on the devices in the network. The ports listed under a VLAN include member ports and ports statically bound to the VLAN.

Figure 2-3. VLAN Tree



To expand or contract a branch of the tree:

Double-click the VLAN's name.

Or

Click the handle next to the VLAN's name.

The VLAN symbol for locally defined VLANs includes the picture of a network device. The VLAN symbol for globally defined VLANs includes the picture of a green sheet of paper. VLANs defined both locally and globally contain both pictures in their VLAN symbol.

If a VLAN is named differently on a device, the locally defined name appears in braces after the device icon in the VLAN Tree. For example, if VLAN 4 is locally named **RandD** on device 132.24.86.212, and globally named **Research**, the following string will appear in the VLAN Tree after the device name: **`132.24.86.212 {RandD}`**. To change all locally defined VLAN names to the globally defined names, you can synchronize the VLAN names on the device. For information on synchronizing VLAN names, refer to "Synchronizing VLAN Names" on page 18.

The VLAN's member ports appear with yellow and blue triangles next to the port name. Ports that are statically bound to the VLAN appear with a blue triangle attached to the port name. Member ports are automatically bound to the VLANs of which they are members. Ports whose VLAN information has changed but has not been applied, appear with gray triangles.

When a VLAN is selected in the VLAN Tree, information about the member ports and statically bound ports appears in the Selection List.

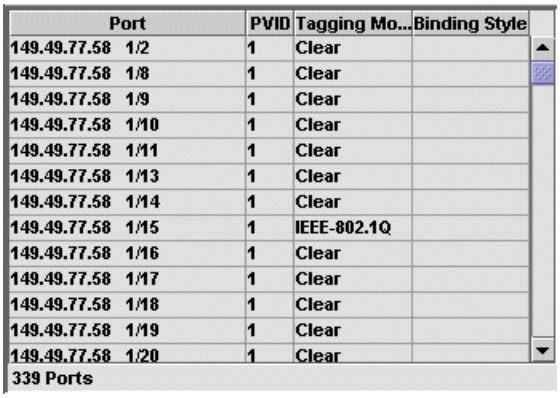
When a device is selected in the VLAN Tree, the ports in the device that are member ports or statically bound ports to the VLAN under which the device appears appear in the Selection List.

For more information about the Selection List, refer to "Understanding the Selection List" on page 12.

Understanding the Selection List

The Selection List provides VLAN information about selected ports. The Selection List appears on the left side of the Dialog Area when no dialog box is open.

Figure 2-4. Selection List



The following table provides a list of the information fields in the Selection List and their descriptions.

Table 2-1. Selection List Fields

Field	Description
Port	The device IP address and port number.
PVID	The Port VLAN ID (PVID) of the port. This is the VLAN of which the port is a member.
Tagging Mode	The tagging mode of the port. For information on tagging modes, refer to "Understanding the Port Configuration Area" on page 13.
Binding Style	The binding style configured on the port. For information on binding styles, refer to "Understanding the Port Configuration Area" on page 13.

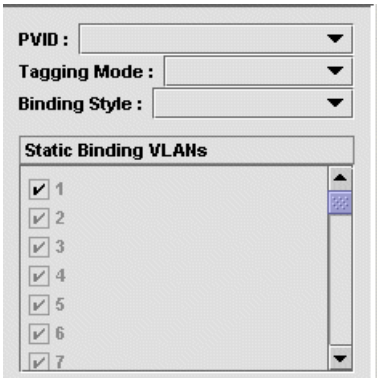
To sort the Selection List table by any of its fields, click the field header. To reverse the order of the sort, click the field header a second time.

The information in the Selection List is read-only.

Understanding the Port Configuration Area

The Port Configuration Area enables you to configure the VLAN configuration of selected ports. The Port Configuration Area appears on the right side of the Dialog Area when no dialog box is open.

Figure 2-5. Port Configuration Area



The following table provides a list of the configuration parameters in the Port Configuration Area and their description.

Table 2-2. Port Configuration Area Parameters

Field	Description
PVID	The Port VLAN ID (PVID) of the port. This is the VLAN of which the port is a member. The PVID pull-down list contains all VLANs known to the network and VLANs on the device.
Tagging Mode	The tagging mode of the port. The tagging mode controls the tagging of packets that can be forwarded by the port. The following tagging modes are available: • **Clear** - The packet is forwarded with no VLAN tag. • **IEEE-802.1Q** - The packet is forwarded with a VLAN tag in conformance with the IEEE-802.q standard.

Table 2-2. Port Configuration Area Parameters (Continued)

Field	Description
Binding Style	The binding style configured on the port. The binding style defines which packets can be forwarded by the port. The following binding styles are available: • **Bind to All** - The port is bound to all VLANs known to a device. This is also known as persistent binding. If a packet is on a VLAN not known to the device, the packet is discarded. • **Bind to Configured** - The port is bound to all VLANs known to the device and to the VLANs with which packets reaching the ports are tagged. This is also known as dynamic binding. If a packet is on a VLAN not known to the device, the packet is discarded. • **Static** - The port is bound to the VLANs checked in the Static Binding VLANs list. Packets on all other VLANs are discarded.
Static Binding VLANs	A list of VLANs known on the network and VLANs configured on the device. Each VLAN has an accompanying checkbox. Possible values are: • **Checked** - The VLAN is bound to the port being configured. • **Unchecked** - The VLAN is not bound to the port being configured. *** Note:** The settings are only used when the port is configured with the **Static** Binding Style.

A port setting may be insensitive if one of the selected ports is on a device that does not support the VLAN setting. For example, if a selected port is on a device that only supports VLAN IDs between 1 and 3071, VLAN IDs between 3072 and 4096 in the PVID pull-down list will be insensitive.

3 Managing VLANs

This chapter provides instructions on how to create, edit, and delete VLANs using Avaya VLAN Manager. It includes the following sections:

- **Creating VLANs**
- **Modifying VLANs**
- **Synchronizing VLAN Names**
- **Deleting VLANs**

Creating VLANs

To create a VLAN:

1. Click .

   Or

   Click **New**.

   Or

   Select **File > New VLAN**. The Create New VLAN dialog box opens.

2. Enter a VLAN number in the VLAN ID field.

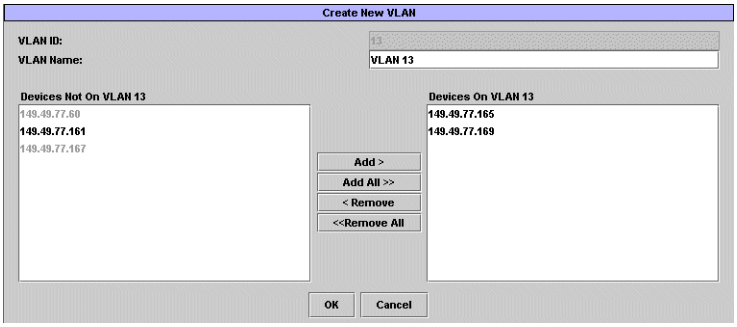
*** Note:** Avaya P330 devices cannot be assigned a VLAN ID greater than 3071. Avaya P130, P580, and P882 devices cannot be assigned a VLAN ID greater than 4096.

*** Note:** VLANs cannot be created on Avaya P120 Devices using Avaya VLAN Manager.

3. Enter a name in the VLAN Name field. Names must be 1 to 16 characters in length.

4. Click the VLAN Name field. The devices in the network appear in the dialog box's listboxes.

Figure 3-1. Create New VLAN Dialog Box



5. Move the IP addresses of the devices on which you want the VLAN to be created locally from the Devices Not on VLAN *x* listbox to the Devices On VLAN *x* listbox, where *x* is the VLAN Number.

   — To move IP addresses from the Devices Not on VLAN *x* listbox to the Devices On VLAN *x* listbox, select the IP addresses you want to move and click **Add**.

   — To move all IP addresses from the Devices Not on VLAN *x* listbox to the Devices On VLAN *x* listbox, click **Add All**.

   — To move IP addresses from the Devices On VLAN *x* listbox to the Devices Not on VLAN *x* listbox, select the IP addresses you want to move and click **Remove**.

   — To move all IP addresses from the Devices On VLAN *x* listbox to the Devices Not on VLAN *x* listbox, click **Remove All**.

6. Click **OK**. The new VLAN is created globally and on the selected devices.

Modifying VLANs

To modify a VLAN:

1. Select the VLAN you want to modify.
2. Click .

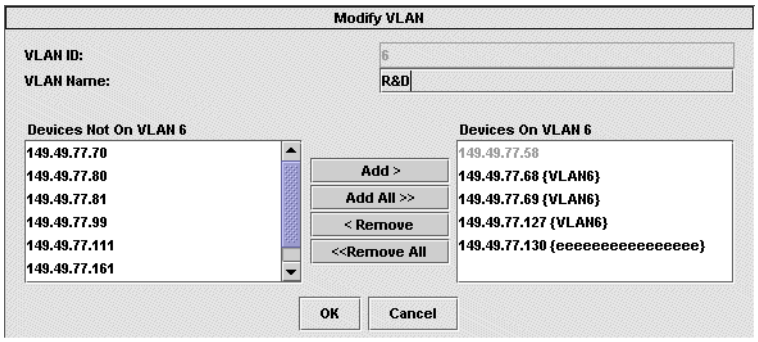
   Or

   Click **Modify**.

   Or

   Select **Edit > Modify VLAN**. The Modify VLAN dialog box opens.

Figure 3-2. Modify VLAN Dialog Box



3. Enter a name for the VLAN in the VLAN Name field.
4. Configure the devices on which you want the VLAN to be created and removed locally using the On VLAN *x* and Not on VLAN *x* listboxes, where *x* is the VLAN Number.

   — To move IP addresses from the Not on VLAN *x* listbox to the On VLAN *x* listbox, select the IP addresses you want to move and click **Add**.

   — To move all IP addresses from the Not on VLAN *x* listbox to the On VLAN *x* listbox, click **Add All**.

   — To move IP addresses from the On VLAN *x* listbox to the Not on VLAN *x* listbox, select the IP addresses you want to move and click **Remove**.

   — To move all IP addresses from the On VLAN *x* listbox to the Not on VLAN *x* listbox, click **Remove All**.

5. Click **OK**. The VLAN is edited in the master VLAN list and the affected devices.

Synchronizing VLAN Names

VLANs with the same VLAN number can be defined with different names on different devices in the network. In addition, VLAN names can be configured in the master VLAN list. This can cause confusion when referring to a VLAN by name rather than by number. Avaya VLAN Manager enables you to synchronize VLAN names on the devices in the network with the master VLAN list.

When synchronizing VLAN names, the VLANs on devices are renamed to provide consistency with the names in the master VLAN list.

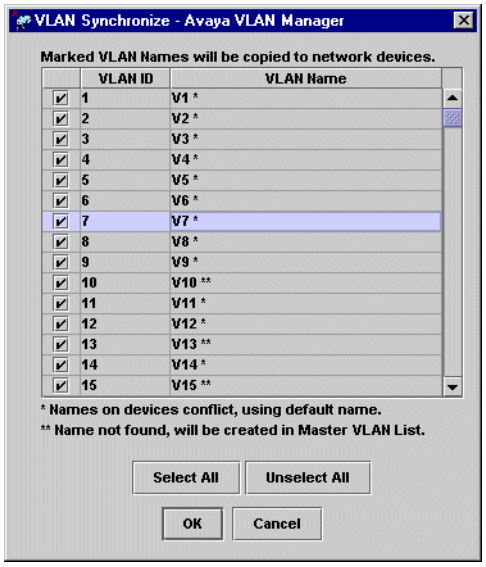
To synchronize VLAN names with the master VLAN list:

1. Click **Sync**.

   Or

   Select **Actions > Synchronize VLANs**. The VLAN Synchronize dialog box opens.

Figure 3-3. VLAN Synchronize Dialog Box



The VLAN Synchronize dialog box provides a list of VLAN IDs and names for VLANs that need to be synchronized. These include VLANs that are in the master VLAN list with a name that differs from the VLAN's name on a device and VLANs that exist on devices, but are not on the master VLAN list.

2. Check the checkboxes next to the VLANs whose names you want synchronized.

   — To check all VLANs in the list, click **Select All**.

   — To uncheck all VLANs in the list, click **Unselect All**.

3. Click **OK**. VLANs on devices are renamed with the VLAN names in the master VLAN list, and VLANs that only exist locally are added to the master VLAN list.

Deleting VLANs

To delete a VLAN:

1. Select the VLAN you want to delete.
2. Ensure that there are no ports associated with the VLAN.
3. Click **Delete**.

   Or

   Select **Edit > Delete VLAN**. The VLAN does not appear in the VLAN Tree.

4. Click **Yes**. The VLAN is deleted from the master VLAN list.

4 Port VLAN Configuration

This chapter describes how to view and configure the PVID, Tagging Mode, and Binding Style of selected ports using Avaya VLAN Manager. It includes following sections:

- **Selecting Ports**
- **Viewing Port VLAN Settings**
- **Using the Port Configuration Area**
- **Drag-and-Drop**

Selecting Ports

This section explains how to select ports for VLAN configuration.

Ports for VLAN Configuration can be selected from the Device Tree or VLAN Tree.

- To select a port, click the port in the Device Tree or VLAN Tree.
- To select multiple ports, press **CTRL** while selecting additional ports.
- To select all of the ports on a module, click the module icon in the Device Tree.
- To select all of the ports on a device, click the device icon in the Device Tree.
- To select all of the ports associated with a VLAN (including member ports and statically bound ports), click the VLAN in the VLAN Tree.

Viewing Port VLAN Settings

To view the VLAN configuration of a port, select a port in the Device Tree or VLAN Tree. The port's VLAN configuration appears in the Selection List. If you select multiple ports in the Device Tree or VLAN Tree, the VLAN configurations for all of the selected ports appear in the Selection List. In addition, parameters that are common to all ports in the selection appear in the Port Configuration Area.

For details on the information provided in the Selection List, refer to "Understanding the Selection List" on page 12.

Using the Port Configuration Area

To configure the VLAN setting for ports on the network using the Port Configuration Area:

1. Select the ports you want to configure in the Device Tree or VLAN Tree. The settings that are common to all of the selected ports appear in the fields in the Port Configuration Area. For information on selecting ports, refer to "Selecting Ports" on page 20.

2. Change the settings in the Port Configuration Area using the pull-down lists and checkboxes. For information on the settings in the Port Configuration Area, refer to "Understanding the Port Configuration Area" on page 13. The VLAN configuration for the selected ports is changed.

*** Note:** When changing the PVID of the selected ports, the ports do not appear selected in the VLAN Tree. However, the ports remain in the Selection List.

Drag-and-Drop

To configure the PVID of ports using drag-and-drop:

1. Select the ports you want to configure in the Device Tree or VLAN Tree. For information on selecting ports, refer to "Selecting Ports" on page 20.

2. Drag the ports until they are over a VLAN icon in the VLAN Tree. The ports are added to the desired VLAN.

*** Note:** When dragging ports from the VLAN Tree, only ports represented by PVID symbols are added to the desired VLAN. Dragged static binding icons are ignored and do not change port PVIDs.

5 Generating VLAN Reports

This chapter provides instructions on how to generate VLAN reports, and a description of the VLAN reports. It includes the following sections:

- **VLAN Report Overview**
- **Report By Port**
- **Report By VLAN**

VLAN Report Overview

Avaya VLAN Manager can generate VLAN reports. These reports are in a comma separated value (CSV) format and can easily be imported into a spreadsheet or database program. There are two types of VLAN reports:

- **Report By Port**
- **Report By VLAN**

Report By Port

This section explains Report By Port and includes the following topics:

- **Generating a Report by Port**
- **Report By Port Fields**

Generating a Report by Port

To generate a Report By Port:

1. Select **File > Report > Report By Port**. A file browser opens.
2. Enter a name for the report in the File name field. The report has a `csv` extension.
3. Browse to the directory in which you want to save the report.
4. Click **Report**. A Report By Port is generated.

Report By Port Fields

In the Report By Port, the information is ordered by port and reflects each port's VLAN configuration.

The following table provides a list of the fields in the Report By Port and their description.

Table 5-1. Report By Port Fields

Field	Description
Device	The IP address of the device in which the port is located.
Port	The module and port number.
PVID	The Port VLAN ID (PVID) of the port. This is the VLAN of which the port is a member.
Tagging Mode	The tagging mode of the port. For information on tagging modes, refer to "Understanding the Port Configuration Area" on page 13.
Binding Style	The binding style configured on the port. For information on binding styles, refer to "Understanding the Port Configuration Area" on page 13.

Report By VLAN

This section explains Report By VLAN and includes the following topics:

- **Generating a Report by VLAN**
- **Report By VLAN Fields**

Generating a Report by VLAN

To generate a Report By VLAN:

1. Select **File > Report > Report By VLAN**. A file browser opens.
2. Enter a name for the report in the File name field. The report has a **`csv`** extension.
3. Browse to the directory in which you want to save the report.
4. Click **Report**. A Report By VLAN is generated.

Report By VLAN Fields

In the Report By VLAN, the information is ordered by VLAN and reflects the status of each port with regard to the VLAN.

The following table provides a list of the fields in the Report By VLAN and their description.

Table 5-2. Report By VLAN Fields

Field	Description
VLAN ID/Name	The VLAN ID.
Device	The IP address of a device.
Port	A module and port number.
PVID	The port's PVID in relation to the VLAN ID. Possible values are: • **Y** - The PVID is the same as the row's VLAN ID. Therefore, the port is a member of the VLAN. • **N** - Therefore, the PVID is different then the row's VLAN ID, i.e. the port is not a member of the VLAN.
Static Bind	The port's static binding configuration in relation to the VLAN. Possible values are: • **Y** - The PVID is statically bound to the VLAN. • **N** - The PVID is not statically bound to the VLAN.

A Avaya VLAN Manager Menus

This appendix gives the menu structure of Avaya VLAN Manager.

File Menu

Table A-1. File Menu

Item	Description
New VLAN	Opens the New VLAN dialog box.
Report > Report By Port	Generates a Report By Port.
Report > Report By VLAN	Generates a Report By VLAN.
Exit	Exits the application.

Edit Menu

Table A-2. Edit Menu

Item	Description
Modify VLAN	Opens the Edit VLAN dialog box.
Delete VLAN	Deletes a VLAN from the VLAN Manager list.
Find Port	Opens the Find dialog box.

View Menu

Table A-3. View Menu

Item	Description
Sort	Sort the devices in the Device Tree according to device type or IP address.
Configure	Toggles the Dialog Area.
Refresh	Refreshes the list of devices in the Device Tree.

Actions Menu

Table A-4. Actions Menu

Item	Description
Synchronize VLANs	Synchronizes VLAN names on devices with the VLAN names in the master VLAN list.
Apply	Applies all the changes to the VLANs in the network.

Help Menu

Table A-5. Help Menu

Item	Description
Contents	Opens the help module contents page.
Help On	Activates context-sensitive help.
About Avaya VLAN Manager	Copyright and version information about Avaya VLAN Manager.

Index

A
Actions menu 28
Avaya VLAN Manager
  help 7
  introduction 1
  menus 27
  overview 1
  starting 3
  understanding 8
  user interface 3

C
Configuring port VLAN parameters 20
  using drag-and-drop 22
  using port configuration area 21
Creating VLANs 15

D
Deleting VLANs 19
Device Tree 4
  sorting 9
  understanding 8
Dialog area 5
Drag-and-drop
  using 22

E
Edit menu 27
Editing VLANs 17

F
Fields
  port configuration area 13
  report by port 24
  report by VLAN 26
  selection list 12
File menu 27
Finding ports 6

G
Generating
  report by port 24
  report by VLAN 25
  reports 24, 25
  VLAN reports 23
Guide
  intended audience v
  organization v
  purpose v

H
Help
  contents page 7
  context sensitive 7
  menu 28
  using 7
How to
  configure port VLAN parameters 20
  configure port VLAN parameters using drag-and-drop 22
  create VLANs 15
  delete VLANs 19
  edit VLANs 17
  find ports 6
  manage VLANs 15
  modify VLANs 17
  open context-sensitive help 7
  open the help to a topic of interest 7
  open the help to the contents page 7
  refresh network information 6
  relearn the network 6
  search for ports 6
  select ports and LAGs for VLAN configuration 20
  sort the Device Tree 9
  start Avaya VLAN Manager 3
  synchronize VLAN names 18
  use Avaya VLAN Manager help 7
  use the port configuration area 21
  view port VLAN settings 21

I
Introduction to Avaya VLAN Manager 1

L
LAGs
  selecting for VLAN configuration 20

M
Managing VLANs 15
Master VLAN list 2
Menus
  Actions 28

Avaya VLAN Manager 27
Edit 27
File 27
Help 28
View 28
Modifying VLANs 17

O
Organization of this guide v
Overview
Avaya VLAN Manager 1
VLAN reports 23
VLANs 2

P
Port
VLAN configuration 20
Port configuration area
fields 13
understanding 13
using 21
Ports
finding 6
searching 6
selecting for VLAN configuration 20
Purpose of this guide v

R
Refresh information 6
Relearn the network 6
Report by port 24
fields 24
generating 24
Report by VLAN 25
fields 26
generating 25
Reports
generating 24, 25

S
Searching
ports 6
Selecting
ports and LAGs for VLAN configuration 20
Selection list
fields 12
understanding 12
Sorting
Device Tree 9
Starting, VLAN Manager 3
Synchronizing VLAN names 18

T
Tags
VLAN 2
Toolbar 4
Tree
network 4
VLAN 4

U
Understanding
Avaya VLAN Manager 8
port configuration area 13
selection list 12
the Device Tree 8
VLAN tree 10
User interface
Avaya VLAN Manager 3
Using
Avaya VLAN Manager help 7
drag-and-drop 22
port configuration area 21

V
View menu 28
Viewing
port VLAN settings 21
Virtual LANs, *see* VLANs
VLAN reports
generating 23
overview 23
VLAN tree 4
understanding 10
VLANs
creating 15
deleting 19
editing 17
managing 15
master list 2
modifying 17
new 15
overview 2
synchronizing names 18
tags 2
viewing port settings 21

W
Who should use this guide v